09/856933 531 APd PCT/F 30 MAY 2001

WO 00/32767

Protein sequences of the examples (mutated to yield soluble forms)

>sFcYRI

SEQ ID NO: 1

MAVISLQPPWVSVFQEETVTLHCEVLHLPGSSSTQWFLNGTATQTSTPSYRITSASVNDS GEYRCQRGLSGRSDPIQLEIHRGWLLLQVSSRVFTEGEPLALRCHAWKDKLVYNVLYYRN GKAFKFFHWNSNLTILKTNISHNGTYHCSGMGKHRYTSAGISVTVKELFPAPVLNASVTS PLLEGNLVTLSCETKLLLQRPGLQLYFSFYMGSKTLRGRNTSSEYQILTARREDSGLYWC EAATEDGNVLKRSPELELQVIGLQLFTPV

SEQ ID NO: 2

>sFcyRIIa

MAAPPKAVLKLEPPWINVLQEDSVTLTCQGARSPESDSIQWFHNGNLIPTHTQPSYRFKA NNNDSGEYTCQTGQTSLSDPVHLTVLSEWLVLQTPHLEFQEGETIMLRCHSWKDKPLVKV TFFONGKSQKFSKLDPTFSIPQANHSHSGDYHCTGNIGYTLFSSKPVTITVQVP

SEQ ID NO: 3

· sFcyRIIb

MJTPAAPPKAVLKLEPQWINVLQEDSVTLTCRGTHSPESDSIQWFHNGNLIPTHTQPSYR FKANNNDSGEYTCQTGCTSLSDPVHLTVLSEWLVLQTPHLEFQEGETLVLRCHSWKDKPL VKVTFFQNGKSKKFSRSDPNFSIPQANHSHSGDYHCTGNIGYTLYSSKPVTITVQAPSSS PMGII

SEO ID NO: 4

>sFcyRIII

MRTEDLPKAVVFLEPQWYSVLEKDSVTLKCQGAYSPEDNSTQWFHNESLISSQASSYFID AATVNDSGEYRCQTNLSTLSDPVQLEVHIGWLLLQAPRWVFKEEDPIHLRCHSWKNTALH KVTYLONGKDRKYFHNSDFHIFKATLKDSGSYFCRGLYGSKNVSSETVNITITTOG

>sFceRIa

SEQ ID NO: 5

MAVPQKPKVSLNPPWNRIFKGENVTLTCNGNNFFEVSSTKWFHNGSLSEETNSSLNIVN AKFEDSGEYKCQHQQVNESEPVYLEVFSDWLLLQASAEVVMBGQPLFLRCHGWRWMDVYK VIYYKDGEALKYWYENHNISITNATVEDSGTYYCTGKVWQLDYESEPLNITVIKAPREKY PLOF

>sFcERII

SEQ ID NO: 6

MDTTQSLKQLEERAARNVSQVSKNLESHHGDQMTQKSQSTQISQELEELRAEQQRLKSQD LELSWNLNGLQADLSSFKSQELMERNEASDLLERLREEVTKLRMELQVSSGFVCNTCPEK WINFQRKCYYFGKGTKQWHARYACDDMEGQLVSISPEEQDFLTKHASHTGSWIGLRNL DLKGEFIWVDGSHVDYSNWAPGEPTSRSQGEDCVMMRGSGRWNDAFCDRKLGAWVCDRLA TCTPPASEGSAESMGPDSRDPDGRLPTPSAPLHS

DNA sequences of the examples (mutated to yield soluble forms)								
>sFyR]			SEQ ID 1	10:7				
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61	ACCTTGCACT	GTGAGGTGCT	CCATCTGCCT	GGGAGCAGCT	CTACACAGTG	GTTTCTCAAT	120	
121	GGCACAGCCA	CTCAGACCTC	GACCCCCAGC	TACAGAATCA	CCTCTGCCAG	TGTCAATGAC	180	
101	AGTGGTGAAT	ACAGGTGCCA	GAGAGGTCTC	TCAGGGCGAA	GTGACCCCAT	ACAGCTGGAA	240	
241	ATCCACAGAG	CCTCCCTACT	ACTGCAGGTC	TCCAGCAGAG	TCTTCACGGA	AGGAGAACCT	300	
201	CTGGCCTTGA	COTOGCIACI	CTCCA ACCAT	AAGCTGGTGT	ACAATGTGCT	TTACTATCGA	360	
	AATGGCAAAG						420	
301	ATAAGTCACA	AMOCCACCER	CCATTCCTCA	CCCATCCCAA	ACCATCCCTA	CACATCAGCA	480	
421	GGAATATCTG	MIGGCACCIA MCACMCMCAA	ACACCTATTT	CCACCTCCAG	TOCTOBATEC	ATCTGTGACA	540	
481	TCCCCACTCC	TCACIGIGAA	TOTOCTORO	CTCAGCTCTC	AAACAAAGTT	CCTCTTCCAC	600	
541	AGGCCTGGTT	TGGAGGGGAA	CONTRACTOR	TACATEGGCA	CCAAGACCCT	GCGAGGCAGG	660	
601	AACACATCCT	TGCAGCTTTA	A A WIN COURS A COU	CCENCANCAC	AACACTCTCC	CTTATACTCC	720	
991	TGCGAGGCTG	CTGAATACCA	MAIACIAACI	CULTAGAAGAG	CCCCCCCCCCCC	CCACCMMCAA	780	
					GCCCIGAGII	GGAGCIICAA	820	
781	GTGCTTGGCC	TCCAGTTACC					620	
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61	CAGGAGGACT	CTGTGACTCT	GACATGCCAG	GGGGCTCGCA	GCCCTGAGAG	CGACTCCATT	120	
121	CAGTGGTTCC	ACAATGGGAA	TCTCATTCCC	ACCCACACGC	AGCCCAGCTA	CAGGTTCAAG	180	
181	GCCAACAACA	ATGACAGCGG	GGAGTACACG	TGCCAGACTG	GCCAGACCAG	CCTCAGCGAC	240	
241	CCTGTGCATC	TGACTGTGCT	TTCCGAATGG	CTGGTGCTCC	AGACCCCTCA	CCTGGAGTTC	300	
301	CAGGAGGGAG	AAACCATCAT	GCTGAGGTGC	CACAGCTGGA	AGGACAAGCC	TCTGGTCAAG	360	
361	GTCACATTCT	TCCAGAATGG	AAAATCCCAG	AAATTCTCCC	GTTTGGATCC	CACCTTCTCC	420	
421	ATCCCACAAG	CAAACCACAG	TCACAGTGGT	GATTACCACT	GCACAGGAAA	CATAGGCTAC	480	
481	ACGCTGTTCT	CATCCAAGCC	TGTGACCATC	ACTGTCCAAG	TGCCCTGAAG	CTT	533	
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61	ACGTGCTCCA	GGAGGACTCT	GTGACTCTGA	CATGCCGGGG	GACTCACAGC	CCTGAGAGCG	120	
121	ACTCCATTCA	GTGGTTCCAC	AATGGGAATC	TCATTCCCAC	CCACACGCAG	CCCAGCTACA	180	
181	GGTTCAAGGC	CAACAACAAT	GACAGCGGGG	AGTACACGTG	CCAGACTGGC	CAGACCAGCC	240	
241	TCAGCGACCC	TGTGCATCTG	ACTGTGCTTT	CTGAGTGGCT	GGTGCTCCAG	ACCCCTCACC	300	
301	TGGAGTTCCA	GGAGGGAGAA	ACCATCGTGC	TGAGGTGCCA	CAGCTGGAAG	GACAAGCCTC	360	
361	TGGTCAAGGT	CACATTCTTC	CAGAATGGAA	AATCCAAGAA	ATTTTCCCGT	TCGGATCCCA	420	
421	ACTTCTCCAT	CCCACAAGCA	AACCACAGTC	ACAGTGGTGA	TTACCACTGC	ACAGGAAACA	480	
491	TAGGCTACAC	CCTCTACTCA	TCCAAGCCTG	TGACCATCAC	TGTCCAAGCT	CCCAGCTCTT	540	
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e,	GTGCTTGAGA	ACCACACTCT	CACTCTGAAC	TGCCAGGGAG	CCTACTCCCC	TGAGGACAAT	120	
121	TCCACACAGT	CCUMUCACA A	TCACACCCTC	ATCTCAAGGGAG	AGGCCTCGAG	Cup CuuCyuu	180	
	GACGCTGCCA						240	
181	GACGCTGCCA	CAGTCAACGA	ACTICON TATIC	CCCTCCTCTC	TOCTOCACCO	CICCACCCIC	300	
241	AGTGACCCGG	TGCAGCTAGA	AGTCCATATC	ACCIGGUIGI	COMPOSITION	CCCTCGGTGG	360	
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361	CATAAGGTCA	CATATTTACA	GAATGGCAAA	GACAGGAAGT	ATTTTCATCA	CACCATTCTGAC		
421	TTCCACATTC	CAAAAGCCAC	ACTCAAAGAT	AGCGGCTCCT	ACTICIGCAG	GGGGCTTGTT	480	
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121	AAATGGTTCC	ACAATGGCAG	CCTTTCAGAA	GAGACAAATT	CAAGTTTGAA	TATTGTGAAT	180	
181	GCCAAATTTG	AAGACAGTGG	AGAATACAAA	TGTCAGCACC	AACAAGTTAA	TGAGAGTGAA	240	
241	CCTGTGTACC	TGGAAGTCTT	CAGTGACTGG	CTGCTCCTTC	AGGCCTCTGC	TGAGGTGGTG	300	
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361	GTGATCTATT	ATAAGGATGG	TGAAGCTCTC	AAGTACTGGT	ATGAGAACCA	CAACATCTCC	420	
421	ATTACAAATG	CCACAGTTGA	AGACAGTGGA	ACCTACTACT	GTACGGGCAA	AGTGTGGCAG	480	
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### SEC ID NO:

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61	AATTTCCAAC	GGAAGTGCTA	CTACTTCGGC	AAGGGCACCA	AGCAGTGGGT	CCACGCCCGG	120
121	TATGCCTGTG	ACGACATGGA	AGGGCAGCTG	GTCAGCATCC	ACAGCCCGGA	GGAGCAGGAC	180
181	TTCCTGACCA	AGCATGCCAG	CCACACCGGC	TCCTGGATTG	GCCTTCGGAA	CTTGGACCTG	240
241	AAGGGGGAGT	TTATCTGGGT	GGATGGGAGC	CACGTGGACT	ACAGCAACTG	GGCTCCAGGG	300
301	GAGCCCACCA	GCCGGAGCCA	GGGCGAGGAC	TGCGTGATGA	TGCGGGGCTC	CGGTCGCTGG	360
361	AACGACGCCT	TCTGCGACCG	TAAGCTGGGC	GCCTGGGTGT	GCGACCGGCT	GGCCACATGC	420
421	ACGCCGCCAG	CCAGCGAAGG	TTCCGCGGAG	TCCATGGGAC	CTGATTCAAG	ACCAGACCCT	480
481	GACGGCCGCC	TGCCCACCCC	CTCTGCCCCT	CTCCACTCTT	GAGCATGGAT	CC	532

### SEO ID NO:13

### human FcyRIIb2

ggctgtgact gctgtgctct gggcgccact cgctccaggg agtgatggga atcctgtcat 61 ttttacctgt ccttgccact gagagtgact gggctgactg caagtccccc cagccttggg 121 gtcatatgct tctgtggaca gctgtgctat tcctggctcc tgttgctggg acacctgcag 181 ctcccccaaa ggctgtgctg aaactcgagc cccagtggat caacgtgctc caggaggact 241 ctgtgactct gacatgccgg gggactcaca gccctgagag cgactccatt cagtggttcc 301 acaatgggaa teteatteee acceacaege ageceageta caggtteaag gecaacaaca 361 atgacagogg ggagtacacg tgccagactg gccagaccag cctcagogac cctgtgcatc 421 tgacagtgct ttctgagtgg ctggtgctcc agacccctca cctggagttc caggagggag 481 aaaccatcgt getgaggtge cacagetgga aggacaagee tetggtcaag gtcacattet 541 tecagaatgg aaaatecaag aaatttteee gtteggatee caacttetee ateccacaag caaaccacag tcacagtggt gattaccatt gcacaggaaa cataggctac acgctgtact 601 661 catccaagec tgtgaccatc actgtccaag ctcccagete ttcaccgatg gggatcattg 721 tggctgtggt cactgggatt gctgtagctg ccattgttgc tgctgtagtg gccttgatct 781 actgcaggaa aaagcggatt tcagccaatc ccactaatcc tgatgaggct gacaaagttg 841 gggctgagaa cacaatcacc tattcacttc tcatgcaccc ggatgctctg gaagagcctg 901 atgaccagaa ccgtatttag tctccattgt cttgcattgg gatttgagaa gaaatcagag 961 agggaagate tggtatttee tggeetaaat teeeettggg gaggacaggg agatgetgea gttccaaaag agaaggtttc ttccagagtc atctacctga gtcctgaagc tccctgtcct gaaagccaca gacaatatgg tcccaaatgc ccgactgcac cttctgtgct tcagctcttc 1081 ttgacatcaa ggctcttccg ttccacatcc acacagccaa tccaattaat caaaccactg 1201 ttattaacag ataatagcaa cttgggaaat gettatgtta caggttacgt gagaacaatc 1261 atgtaaatct atatgatttc agaaatgtta aaatagacta acctctacca qcacattaaa 1321 agtgattgtt tctgggtgat aaaattattg atgattttta ttttctttat ttttctataa 1381 agatcatata ttacttttat aataaaacat tataaaaac

# OSESSES EESSESSES

# SEQ ID NO:14

## human Fc∈RIa

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61	cotactotac tgtgtgtagc cttactgttc ttcgctccag atggcgtgtt agcagtccct
121	cagaaaccta aggtctcctt gaaccctcca tggaatagaa tatttaaagg agagaatgtg
181	actottacat gtaatgggaa caatttottt gaagtoagtt coaccaaatg gttocacaat
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301	agtggagaat acaaatgtca gcaccaacaa gttaatgaga gtgaacctgt gtacctggaa
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421	ctcttcctca ggtgccatgg ttggaggaac tgggatgtgt acaaggtgat ctattataag
481	gatggtgaag ctctcaagta ctggtatgag aaccacaaca tctccattac aaatgccaca
541	gttgaagaca gtggaaccta ctactgtacg ggcaaagtgt ggcagctgga ctatgagtct
601	gagcccctca acattactgt aataaaagct ccgcgtgaga agtactggct acaatttttt
661	atcccattgt tggtggtgat tctgtttgct gtggacacag gattatttat ctcaactcag
721	cagcaggtca catttetett gaagattaag agaaccagga aaggettcag acttetgaac
781	ccacatccta agccaaaccc caaaaacaac tgatataatt aactcaagaa atatttgcaa
841	cattagtttt tttccagcat cagcaattgc tactcaattg tcaaacacag cttgcaatat
901	acatagaaac gtctgtgctc aaggatttat agaaatgctt cattaaactg agtgaaactg
961	attaagtggc atgtaatagt aagtgctcaa ttaacattgg ttgaataaat gagagaatga
1021	atagattcat ttattagcat ttgtaaaaga gatgttcaat ttagatct

## SEQ ID NO:15

	man	LOI		u.		L.y	rc	receb	COL	(FCYRI	,
1	gacag	attt	c act	gct	ccca	c	ago	ttgga	gaca	acatgt	

ggttcttgac aactctgctc ctttgggttc cagttgatgg gcaagtggac accacaaagg cagtgatetc tttgcagcet 61 121 ccatgggtca gcgtgttcca agaggaaacc gtaaccttgc actgtgaggt gctccatctg 181 · cctgggagca gctctacaca gtggtttctc aatggcacag ccactcagac ctcgaccccc 241 agctacagaa tcacctctgc cagtgtcaat gacagtggtg aatacaggtg ccagagaggt 301 ctctcagggc gaagtgaccc catacagctg gaaatccaca gaggctggct actactgcag gtotccagca gagtottcac ggaaggagaa cototggoot tgaggtgtca tgcgtggaag 361 gataagctgg tgtacaatgt gctttactat cgaaatggca aagcctttaa gtttttccac 421 tggaattcta acctcaccat tctgaaaacc aacataagtc acaatggcac ctaccattgc 481 tcaggcatgg gaaagcatcg ctacacatca gcaggaatat ctgtcactgt gaaagagcta 541 601 tttccagctc cagtgctgaa tgcatctgtg acatccccac tcctggaggg gaatctggtc 661 accetgaget gtgaaacaaa gttgetettg cagaggeetg gtttgeaget ttaettetee 721 ttctacatgg gcagcaagac cctgcgaggc aggaacacat cctctgaata ccaaatacta actgctagaa gagaagactc tgggttatac tggtgcgagg ctgccacaga ggatggaaat 781 gtccttaagc gcagccctga gttggagctt caagtgcttg gcctccagtt accaactcct

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1201 tgcccacttg ctccccgtga gcactgcgta caaacatcca aaagttcaac aacaccagaa 1261 ctgtgtgtct catggtatgt aactcttaaa gcaaataaat gaactgactt caaaaaaaaa

1321 a

### SEQ ID NO:16

6

human FcyRIIa

cccaaatgtc tcagaatgta tgtcccagaa acctgtggct gcttcaacca ttgacagttt 1 tgctgctgct ggcttctgca gacagtcaag ctgcagctcc cccaaaggct gtgctgaaac 61 ttgagccccc gtggatcaac gtgctccagg aggactctgt gactctgaca tgccaggggg 121 ctogcagoco tgagagogao tocattoagt ggttocacaa tgggaatoto attoccacco 181 acacgcagcc cagetacagg ttcaaggcca acaacaatga cageggggag tacaegtgcc 241 agactggcca gaccagcctc agegaccctg tgcatctgac tgtgctttcc gaatggctgg 301 tgctccagac ccctcacctg gagttccagg agggagaaac catcatgctg aggtgccaca 361 gctggaagga caagcctctg gtcaaggtca cattcttcca gaatggaaaa tcccagaaat 421 terceegttt ggateecace trerceatee cacaageaaa ceacagteac agtggtgatt 481 accactgoac aggaaacata ggotacacgo tgttotcato caagcotgtg accatcactg 541 tocaagtgoo cagcatgggo agotottoac caatggggat cattgtggot gtggtcattg 601 cgactgctgt agcagccatt gttgctgctg tagtggcctt gatctactgc aggaaaaagc 661 ggatttcagc caattccact gatcctgtga aggctgccca atttgagcca cctggacgtc 721 aaatgattgc catcagaaag agacaacttg aagaaaccaa caatgactat gaaacagctg 781 acggeggeta catgaetetg aaccccaggg cacctaetga egatgataaa aacatetace 841 tgactettee teecaacgae catgteaaca gtaataacta aagagtaacg ttatgecatg 901 tggtcatact ctcagcttgc tgatggatga caaaaagagg ggaattgtta aaggaaaatt 961 taaatgqaga ctggaaaaat cctgagcaaa caaaaccacc tggcccttag aaatagcttt 1021 aactttgctt aaactacaaa cacaagcaaa acttcacggg gtcatactac atacaagcat 1081 aagcaaaact taacttggat catttctggt aaatgcttat gttagaaata agacaacccc 1141 agccaatcac aagcagccta ctaacatata attaggtgac tagggacttt ctaagaagat 1201 acctacccc aaaaaacaat tatgtaattg aaaaccaacc gattgccttt attttgcttc 1261 1321 cacattttcc caataaatac ttgcctgtga cattttgcca ctggaacact aaacttcatg 1381 aattgegeet eagatettte etttaacate tettettett tegacagagt etcaatetgt 1441 tacceagget ggagtgeagt ggtgetatet tggeteactg caaaccegee teccaggttt aagegattet tatgeeteag ceteceagta getgggatta gaggeatgtg ceateatace 1501 1561 cagetaattt tigtattitt tattititat tittagtaga gacagggtit egeaatgitg 1621 gccaggccga tetegaactt etggeeteta gegatetgee egeeteggee teccaaagtg 1681 ctgggatgac cgcatcagec ccaatgtcca gcctctttaa catcttcttt cctatgccct 1741 ctctgtggat ccctactgct ggtttctgcc ttctccatgc tgagaacaaa atcacctatt 1801 cactgottat geagteggaa geteeagaag aacaaagage eeaattacca gaaceacatt 1861 aagteteeat tgttttgeet tgggatttga gaagagaatt agagaggtga ggatetggta 1921 tttcctqqac taaattccct tggggaagac gaagggatgc tgcagttcca aaagagaagg 1981 actottocag agtoatotac otgagtocca aagotocotg tootgaaago cacagacaat 2041 atggtcccaa atgactgact gcaccttctg tgcctcagcc gttcttgaca tcaagaatct 2101 totgttocac atocacacag coaatacaat tagtcaaacc actgttatta acagatgtag 2161 caacatgaga aacgcttatg ttacaggtta catgagagca atcatgtaag tctatatgac 2221 ttcagaaatg ttaaaataga ctaacctcta acaacaaatt aaaagtgatt gtttcaaggt 2281 gatgcaatta ttgatgacct attttatttt tctataatga tcatatatta cctttgtaat 2341 aaaacattat aaccaaaac

# oseso. EEeazeeo

# SEQ ID NO:17

## human FcyRIII

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421	agctggaaga	acactgctct	gcataaggtc	acatatttac	agaatggcaa	agacaggaag
481	tattttcatc	ataattetga	cttccacatt	ccaaaagcca	cactcaaaga	tagcggctcc
541	tacttctgca	gggggcttgt	tgggagtaaa	aatgtgtctt	cagagactgt	gaacatcacc
601	atcactcaag	gtttggcagt	gtcaaccatc	tcatcattct	ctccacctgg	gtaccaagtc
661	tctttctgct	tggtgatggt	actcctttt	gcagtggaca	caggactata	tttctctgtg
721	aagagaaaga	tttgaagete	aacaagagac	tagaaggacc	atasacttas	ataaaaaaa

781 gaccctcaag acaaatgacccccatcccat gggagtaata agagcagtgg cagcagcatc 841 tctcgaacatt tctctggatt tgcaacccca tcatcctcag gcctctc

## SEQ ID NO: 18

## human FcgRII

1 ctcctgctta aacctctgtc tctgacggtc cctgccaatc gctctggtcg
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